**Unit 7 (Genetics): Topics, Objectives, and Specific Learning Targets**

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| **Topic** | **Objective** | **Specific Learning Target** | **Where did I learn this?**  (What resources should I use to study?) | **How well do I know this?**  (scale of 1 to 3, with 3 indicating a high level of understanding) |
| Mendel and Vocabulary | I can use basic genetics vocabulary and describe Mendel’s experiments. | 1. I can use basic genetics vocabulary (ex: genotype, phenotype, heterozygous, homozygous, dominant, recessive). |  |  |
| 2. I can describe Mendel’s experiments. |  |  |
| Punnett Squares | I can use Punnett squares to show the inheritance of traits from parents to offspring. | 3. I can use Punnett squares for basic monohybrid crosses. |  |  |
| 4. I can use Punnett squares for unusual monohybrid crosses—incomplete dominance, codominance, blood types, sex-linkage. |  |  |
| 5. I can use Punnett squares for dihybrid crosses. |  |  |
| Pedigrees | I can use pedigrees to track the inheritance of traits across multiple generations. | 6. I can analyze pedigrees to determine the type of inheritance for a trait—dominant, recessive, or sex-linked. |  |  |
| 7. I can create a pedigree given information about several generations of individuals. |  |  |